FileInfo *Comparable*

- \# accessibility: boolean
- \# creationTime: Date
- \# directory: boolean
- \# children: List<FileInfo>
- \# lastAccessTime: Date
- \# lastModifiedTime: Date
- \# name: String
- \# numberOfDirectories: int
- \# numberOfFiles: int
- \# path: String
- \# size: Long
- \# symbolicLink: boolean

- \+ addChild(FileInfo): void
- \+ addChildAndCount(FileInfo): void
- \+ compareTo(FileInfo): int
- \+ FileInfo(Path, BasicFileAttributes)
- \+ FileInfo()
- \+ FileInfo(Path)
- \+ getCreationTime(): Date
- \+ getChildren(): List<FileInfo>
- \+ getLastAccessTime(): Date
- \+ getLastModifiedTime(): Date
- \+ getName(): String
- \+ getNumberOfDirectories(): int
- \+ getNumberOfFiles(): int
- \+ getPath(): String
- \+ getSize(): Long
- \+ getTableRows(): ObservableList<RowInfo>
- \+ isAccessible(): boolean
- \+ isDirectory(): boolean
- \+ isSymbolicLink(): boolean
- \- nameCompare(String, String): int
- \+ print(): void
- \- print(int): void
- \- resolvePath(Path): void
- \+ setAccessibility(boolean): void
- \+ setCreationTime(Date): void
- \+ setDirectory(boolean): void
- \+ setLastAccessTime(Date): void
- \+ setLastModifiedTime(Date): void
- \+ setName(String): void
- \+ setNumberOfDirectories(int): void
- \+ setNumberOfFiles(int): void
- \+ setPath(String): void
- \+ setSize(Long): void
- \+ setSymbolicLink(boolean): void
- \+ sortChildren(): void
- \+ toFile(): File
- \+ toString(): String

DiffInfo

- \# diffChildren: List<DiffInfo>
- \# newAccessibility: boolean
- \# newCreationTime: Date
- \# newLastAccessTime: Date
- \# newLastModifiedTime: Date
- \# newNumberOfDirectories: int
- \# newNumberOfFiles: int
- \# newSize: Long
- \# newSymbolicLink: boolean
- \# state: ItemState

- \+ addChild(DiffInfo): void
- \- addToList(ArrayList<RowInfo>, String, Object, Object): void
- \+ DiffInfo()
- \+ DiffInfo(Path)
- \+ getDiffChildren(): List<DiffInfo>
- \+ getNewCreationTime(): Date
- \+ getNewLastAccessTime(): Date
- \+ getNewLastModifiedTime(): Date
- \+ getNewNumberOfDirectories(): int
- \+ getNewNumberOfFiles(): int
- \+ getNewSize(): Long
- \+ getState(): ItemState
- \+ getTableRows(): ObservableList<RowInfo>
- \+ isNewlyAccessible(): boolean
- \+ isNewlySymbolicLink(): boolean
- \- objectToString(Object): String
- \+ setNewAccesibility(boolean): void
- \+ setNewCreationTime(Date): void
- \+ setNewLastAccessTime(Date): void
- \+ setNewLastModifiedTime(Date): void
- \+ setNewNumberOfDirectories(int): void
- \+ setNewNumberOfFiles(int): void
- \+ setNewSize(Long): void
- \+ setNewSymbolicLink(boolean): void
- \+ setState(ItemState): void

«enumerati...» ItemState

- UNMODIFIED
- MODIFIED
- CREATED
- DELETED

\#state

Differ

- \- logger: Logger = Logger.getLogge... {readOnly}

- \+ diffDocuments(Document, Document): DiffInfo
- \+ diffXMLs(String, String, String): DiffInfo

DiskExplorer

- \- DiskExplorer()
- \+ getFileTree(String): FileInfo

\~root

FileVisitorImpl *FileVisitor*

- \~ directoryStack: Deque<FileInfo> = new ArrayDeque<>()
- \~ root: FileInfo

- \+ getRoot(): FileInfo
- \+ postVisitDirectory(Path, IOException): FileVisitResult
- \+ preVisitDirectory(Path, BasicFileAttributes): FileVisitResult
- \+ visitFile(Path, BasicFileAttributes): FileVisitResult
- \+ visitFileFailed(Path, IOException): FileVisitResult

FileTreeAnalyzer *Application*

- \- fh: FileHandler = null
- \- logger: Logger = Logger.getLogge... {readOnly}

- \- initLogger(): void
- \+ main(String[]): void
- \+ start(Stage): void

FileInfoConverter

- \- logger: Logger = Logger.getLogge... {readOnly}

- \+ domToDiffInfo(Document): DiffInfo
- \+ domToFileInfo(Document): FileInfo
- \+ fileInfoToDom(FileInfo): Document
- \- childrenToDom(Document, Node, FileInfo): void
- \- childrenToInfo(Element, String, boolean): FileInfo
- \- setDate(Element, Date, DateFormat): Date
- \- setNewBoolean(String, boolean): boolean
- \- setNewNumber(String, int): int

XMLFileManager

- \- analysesPath: Path
- \- logger: Logger = Logger.getLogge... {readOnly}

- \+ createXMLFile(Document): String
- \+ deleteXMLFile(String): void
- \+ findAllXMLFiles(): List<String>
- \+ findXMLFile(String): Document
- \+ findXMLFile(String, Boolean): Document
- \+ getPathFromXML(String): String
- \- getTimestamp(): String
- \+ XMLFileManager(String)